



Tessellation 22 (K)

Suite: Tessellation Party!

"Only -30C, 50cm snow? Must be spring, eh."

by Arya Akhavan (January 2013)

Angles for R.I. = 1.650

91 + 18 girdles = 109 facets

6-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.350 U/W = 0.303

P/W = 0.470 C/W = 0.130

Vol./W³ = 0.195

PAVILION

P1	44.54°	08-24-40-56-72-88	Cut to centerpoint.
P2	44.79°	02-14-18-30-34-46-50-62-66-78-82-94	Meet at culet.
G1	90.00°	02-14-18-30-34-46-50-62-66-78-82-94	Set stone size.
G2	90.00°	08-24-40-56-72-88	Level girdle.
P3	43.29°	03-13-19-29-35-45-51-61-67-77-83-93	Meet P1, P2, G1, G2
P4	43.29°	01-15-17-31-33-47-49-63-65-79-81-95	Meet P2, G1

CROWN

C1	28.14°	08-24-40-56-72-88	Set girdle width.
C2	35.22°	02-14-18-30-34-46-50-62-66-78-82-94	Level girdle.
C3	25.28°	03-13-19-29-35-45-51-61-67-77-83-93	Meet G1, G2, C1, C2
C4	15.99°	05-11-21-27-37-43-53-59-69-75-85-91	Meet C1, C3
C5	12.28°	96-16-32-48-64-80	Meet C3, C4
T	0.00°	Table	Meet C4, C5

I'm running out of ideas for this Tessellation series, both designs and names. Here's the first in the K subgroup - this design has ridiculous light return and amazing tilt brightness, and it's easy to cut! Works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes, but I prefer it in absurdly chrome-green peridot.

Suggested size = 8-12 mm

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